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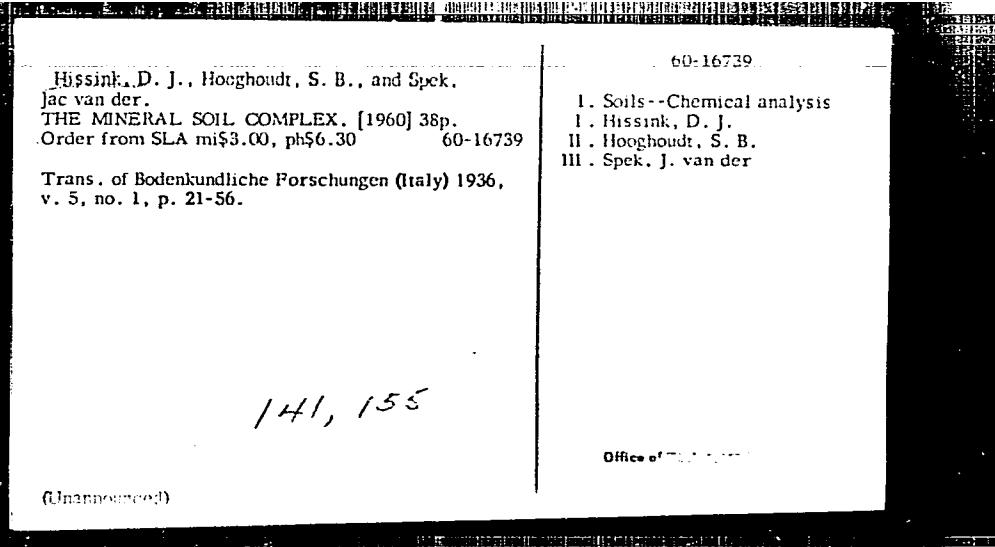
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DESCRIPTORS: *Herring, Growth, Age, *Food,
Ecology, Japan

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DESCRIPTORS: "Determination, "Arsenic, "Tobacco,
Chemical analysis, "Carbamates.

62-17374

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DESCRIPTORS: *Acoustic detectors, *Pitch discrimination, Noise analyzers, *Auditory signals, Sound, Frequency shift.

A new principle is described which permits not only extraction of pitch frequency, but extraction of formant or new parameters of speech information. This is achieved by discriminating the zero-crossing of frequency shifted signal. By infinitely increasing the amplitude and then clipping, it is possible with the present method to detect pitch signals which begin to appear in low-energy transients and to suppress noise with the residual carrier waves. In the detection of (Physics--Acoustics, TF, v. 8, no. 9) (over)

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